**BRUHAT BANGALORE MAHANAGARA PALIKE**
**Yelahanka Division, Yelahanka Zone**

Executive Engineer
Yelahanka Division
B.B.M.P. Bangalore-64

**MODIFIED SCHEDULE -'B'**

**Name of work:** Restoration and Improvements of balance Roads of chikkabettahalli village, Doddabettahalli Village, Aditya nagar Phase-01 and Surrounding area in ward no-03 of yelahanka New town sub division, (package-05)

| Sl | Description | Unit | Approved Quantity | Approved rate | |
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| | | | | Rate | Rate in Words |
| 1 | KSRRBM200-13.1 Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. i)Lime/Cement Concrete II ByMechanical Means.A.Cement Concrete GradeM-15&M-20 MORTH Specification No.202. | Cum | 593.22 | 417.53 | Rupees Four Hundred Seventeen And Paise Fifty Three Only |
| 2 | Removing and resetting of footpath slab | Sqm | 5167.08 | 210.91 | Rupees Two Hundred Ten And Paise Ninty One Only |
| 3 | KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications | Cum | 6583.48 | 217.43 | Rupees Two Hundred Seventeen And Paise Fourty Three Only |
| 4 | KSRB 4-1.3. Providing and laying Plain cement concrete of mix 1:4:8 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications No KSRB 4.1, 4.2 | Cum | 694.31 | 5675.99 | Rupees Five Thousand Six Hundred Seventy Five And Paise Ninty Nine Only |
| 5 | Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification. | Cum | 1324.86 | 7497.22 | Rupees Seven Thousand Four Hundred Ninty Seven And Paise Twenty Two only |

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| 6 | KSRB 4.9.2: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. KBS 4.46.2 | Tn | 81.16 | 80948.07 | Rupees Eighty Thousand Nine Hundred Fourty Eight And Paise Seven Only |
| 7 | Providing and Fixing pre cast covering Slab 100mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. | Sqm | 4733.10 | 1941.22 | Rupees One Thousand Nine Hundred Fourty One And Paise Twenty Two Only |
| 8 | Providing and fixing RCC precast cover slab of 230mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. | Sqm | 121.89 | 4530.86 | Rupees Four Thousand Five Hundred Thirty And Paise Eighty Six Only |
| 9 | KSRB4-1.6; Providing and laying in position plain cement concrete of Mix1:2:4 with OPC@240kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fineaggregtes @0.53cum, machine mixed, concrete laid in layers not exceeding 15cms. thick, well compacted, infoundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS4.1,4.2 | Cum | 77.74 | 6089.85 | Rupees Six Thousand Eighty Nine And Paise Eighty Five Only |
| 10 | Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation etc ,complete. | Nos | 8637.24 | 436.80 | Rupees Four Hundred Thirty Six And Paise Eighty Only |
| 11 | Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. | Sqm | 1368.50 | 85.65 | Rupees Eighty Five And Paise Sixty Five Only |
| 12 | KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications. | Cum | 10401.73 | 64.58 | Rupees Sixty Four And Fifty Eight only |
| 13 | KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. | Sqm | 35176.74 | 6.42 | Rupees Six And Paise Fourty Two Only |

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| 14 | Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. | Cum | 4385.68 | 2014.87 | Rupees Two Thousand Fourteen And Paise Eighty Seven Only |
| 15 | KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. | Cum | 5901.90 | 2021.29 | Rupees Two Thousand Twenty One And Paise Twenty Nine Only |
| 16 | KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. | Sqm | 23002.69 | 34.26 | Rupees Thirty Four And Paise Twenty Six Only |
| 17 | KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications. | Sqm | 46005.37 | 12.85 | Rupees Twelve And Paise Eighty Five Only |
| 18 | KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen. | Cum | 1150.13 | 7365.73 | Rupees Seven Thousand Three Hundred Sixty Five And Paise Seventy Three Only |

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| 19 | Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015 using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) | Cum | 920.11 | 8534.82 | Rupees Eight Thousand Five hundred Thirty Four And Paise Eighty Two Only |
| 20 | KSRRB M800-13 Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. | Sqm | 1429.12 | 459.29 | Rupees Four Hundred Fifty Nine And Paise Twenty Nine Only |
| 21 | KSRRB M800-35. Supply and Installtion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97 – DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer. | Nos | 1230.00 | 360.79 | Rupees Three Hundred Sixty And Paise Seventy Nine Only |

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| 22 | KSRRB M600-1.Providing and Constructing dry lean cement concrete mix CC 1:5:10 base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum over a prepared sub-base, coarse and fine aggregate conforming to IS: 383-2016,aggregate cement ratio not to exceed 15:1, Aggregate gradation after blending to be as per Table 600-1,optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. Clause 601of MORTH V Revision and IS 456 Table-5. with OPC at 150 kg/cum and coarse aggregate .86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with Slip form paver with electronic sensor. | Cum | 1081.24 | 4101.90 | Rupees Four Thousand One Hundred One And Paise Ninty Only |
| 23 | Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound. | Cum | 1081.24 | 5690.65 | Rupees Five Thousand Six Hundred Ninty And Paise Sixty Five Only |

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